

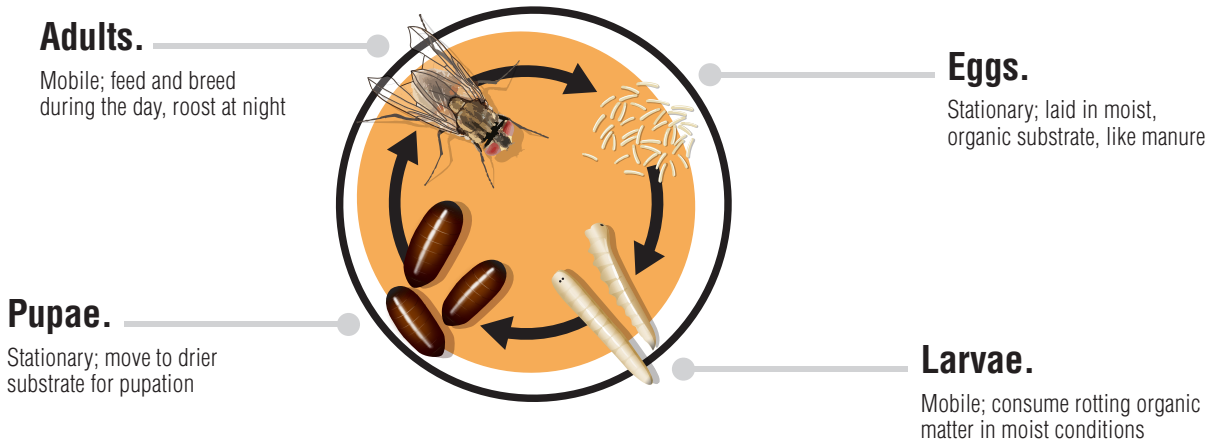


# Fly Control in Egg Laying Facilities

## Why is Fly Control Important?

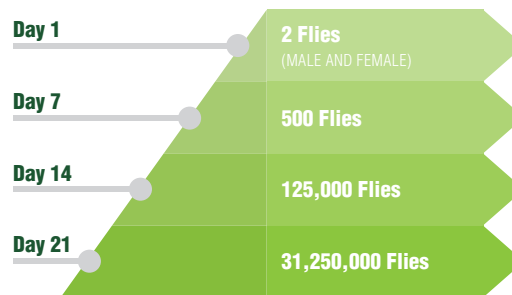
- Flies are vectors of many disease-causing pathogens
  - Avian influenza, *E. coli*, *Salmonella*
- Flies increase the feed conversion ratio
- Flies leave 'spots' on eggs, reducing egg quality grading
- Flies are an overall nuisance, reducing egg output and worker efficiency

## House Fly Biology

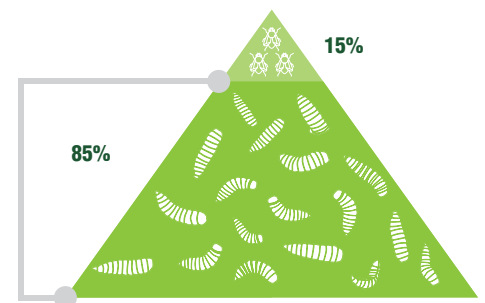


## House Flies by the Numbers

When uncontrolled, house fly populations can explode in numbers (Fig. 1). It is important to have an Integrated Pest Management (IPM) in place to prevent insecticide resistance & maintain insect control across the entire facility. In addition to over-bird & premise applications, insect growth regulators (IGRs) should be implemented. The flies you see swarming in a facility are only 15% of the total fly population (Fig. 2). This means that 85% of flies are in the egg, larva, or pupa stage and by using IGRs, you can reduce the number that reach adulthood.



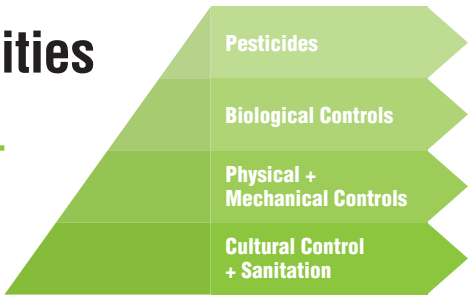
**FIG 1. HOUSE FLY POPULATION GROWTH WHEN UNCONTROLLED**  
\*ASSUMES OPTIMAL CONDITIONS\*



**FIG 2.**



# Fly Control in Egg Laying Facilities



## Integrated Pest Management Approach

Integrated pest management (IPM) involves the use of all types of control techniques, including non-chemical approaches, to keep flies out of egg laying facilities.

### OVER-ANIMAL INSECTICIDES



#### ULD® BP-100

- Oil-based, ready-to-use fogging concentrate
- Synergized formula contains pyrethrins, a botanical insecticide



#### EverGreen® Pro 60-6

- Concentrated, water-based contact insecticide
- Synergized formula contains pyrethrins, a botanical insecticide

### FLY BAITS



#### Decimari® Fly Bait

- First fly bait with dual modes of action
- Contains NyGuard® IGR
- Three convenient application methods: scatter, paint-on or bait station use

### INSECT GROWTH REGULATORS



#### NyGuard® IGR Concentrate

- Keeps insects in the juvenile stage, making them unable to reproduce and easier to kill
- May be sprayed on manure, concrete or wherever flies are breeding or resting
- May be mixed with other insecticides unless specified by the label



#### Flynexx® Granules

- Insect growth regulator disrupts the fly larvae molting process
- Water soluble granule for dry scattering or spraying
- Apply to manure and other fly breeding site

### PREMISE SPRAYS



#### Onslaught® FastCap Spider & Scorpion Insecticide

- Fast-acting microencapsulated formula provides quick kill and residual control
- For use indoors and outdoors



#### Tobex® Multi MOA Concentrate

- Convenient all in one product provides quick kill and residual control
- Dual mode of action formula contains NyGuard IGR



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